

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Please amend the claims as follows:

1. (Currently Amended) For an electronic system stored on a computer medium for creating and editing an electronic document, a method for semantically labeling a string of text in the electronic document created in an application program module, the method comprising:

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of text before transmitting the string of text to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determining if the string of text has been edited before transmitting the string of text from the recognizer dynamic-link library to the at least one recognizer plug-in;

in response to determining if ~~when~~ the string of text has been edited, deleting the ~~edit~~ edited string of text from the job queue;

in response to determining if ~~when~~ the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

in each of the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~, annotating the string of text to determine [[a]] at least one label, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in;

transmitting the at least one ~~labels~~ label from the at least one recognizer plug-in ~~plug-ins~~ to the recognizer dynamic-link library, wherein transmitting the at least one label from the at least one recognizer plug-in comprises determining if the string of text annotated by the at least one recognizer plug-in has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining the string of text has been edited after the string of text was transmitted to the recognizer dynamic-link library, transmitting the string of text from the application program module to the recognizer dynamic-link library;

compiling the at least one ~~labels~~ label into a ~~plurality of~~ at least one semantic category ~~categories~~ at the recognizer dynamic-link library;

transmitting the at least one semantic category ~~categories~~ to the application program module such that each of the at least one label is associated with the string of text; and

embedding the ~~plurality of~~ at least one semantic category ~~categories~~ in the electronic document.

2. (Currently Amended) The method of Claim 1 further comprising synchronizing the at least one ~~labels~~ label received from the at least one recognizer plug-in ~~plug-ins~~ before transmitting the at least one ~~labels~~ label to the application program module.

3. (Currently Amended) The method of Claim 1 further comprising:
receiving the at least one labels label in an action dynamic link library;
transmitting the at least one labels label to at least one ~~a plurality~~ of action plug-
in ~~plug-ins~~; and
determining, in the at least one action plug-in ~~plug-ins~~, at least one ~~a plurality of~~
action actions based on each of the at least one labels label and displaying at least one
~~a plurality of~~ action actions received from the ~~plurality of~~ at least one action plug-in ~~plug-~~
~~ins~~.

4.-6. (Canceled)

7. (Currently Amended) The method of Claim 1 further comprising:
causing the application program module to fire an event within an object model of
the application program module; and
causing a piece of code associated with the event to be executed when at least
one of the at least one labels label is determined.

8. (Currently Amended) The method of Claim 1 further comprising:
before the step of receiving the string of text in ~~[[a]]~~ the recognizer dynamic-link
library, determining a language of the string of text and if the language is not recognized
by the recognizer dynamic-link library, then ending the method.

9. (Canceled)

10. (Currently Amended) A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising:

as the string of text is entered into the electronic document, automatically receiving the string of text in a recognizer dynamic link library during an idle time after the string of text has been entered in the electronic document and determining whether the string of text matches at least one of a plurality of stored string strings according to semantic categories, wherein receiving the string of text comprises:

maintaining a job queue, the job queue storing the string of text before transmitting the string of text to at least one a plurality of recognizer plug-in plug-ins, and

determining if the string of text has been edited;

in response to determining if ~~when~~ the string of text has been edited, deleting the edit string of text from the job queue;, and

in response to determining if ~~when~~ the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one plurality of recognizer plug-in ~~plug-ins~~ during an idle time;

if so, then determining a label associated with the matched stored string, wherein determining the label associated with the matched stored string comprises breaking the string of text by each of the at least one recognizer plug-in; ~~and~~

associating the label with the string of text;

transmitting the semantic categories to the application program module, wherein
transmitting the semantic categories to the application module comprises determining if
the string of text associated with the label has been edited after the string of text was
transmitted to the recognizer dynamic-link library;

in response to determining if the string of text associated with the label has been
edited after the string of text was transmitted to the recognizer dynamic-link library,
transmitting the string of text from the application program module to the recognizer
dynamic-link library; and

embedding the semantic categories in the electronic document.

11. (Currently Amended) The method recited in Claim 10 further comprising
determining ~~a set of~~ at least one action ~~actions~~ associated with the label.

12. (Original) The method recited in Claim 11 further comprising displaying an
indication indicating that the label has been found for the string of text.

13. (Currently Amended) The method recited in Claim 12 further comprising:
determining that a user has selected the string of text; and
in response, displaying the at least one ~~plurality of action~~ actions to the user.

14. (Currently Amended) The method recited in Claim 13 further comprising:
receiving an indication that one of the at least one ~~plurality of action~~ actions has
been selected; and

in response to receiving ~~an~~ the indication that one of the at least one ~~plurality of~~
action ~~actions~~ has been selected, then causing the selected one of the at least one
~~plurality of~~ action ~~actions~~ to execute.

15. (Cancelled)

16. (Currently Amended) The method recited in Claim 14 wherein causing the
selected one of the at least one ~~plurality of~~ action ~~actions~~ to execute comprises
determining whether an action plug-in dynamic link library assigned to the selected
action is available; and

if so, then receiving instructions from the action dynamic link library assigned to
the selected action.

17. (Currently Amended) The method recited in Claim 16 further comprising:
if ~~an~~ the action plug-in dynamic link library is not available, then using a Uniform
Resource Locator assigned to the action to navigate to a Web site and download the
action plug-in dynamic link library.

18. (Previously Presented) The method recited in Claim 17 further comprising
determining metadata associated with the string of text.

19. (Currently Amended) A system, stored on a computer medium, for labeling a string in an electronic document as the string is entered into the electronic document, the system comprising:

an application program module for creating the electronic document;

a recognizer dynamic link library connected to the application program module, wherein the recognizer dynamic link library automatically receives the string during an idle time after the string has been entered in the electronic document; and

at least one recognizer plug-in connected to the recognizer dynamic link library, wherein the at least one recognizer plug-in receives the string, annotates the string to determine a label according to semantic categories embedded in the electronic document, wherein the string annotated to determine the label comprises break the string by each of the at least one recognizer plug-in, and associates the label with the string, wherein the at least one recognizer plug-in receiving the string comprises:

maintain ~~maintaining~~ a job queue, the job queue storing the string ~~of text~~ before transmitting the string ~~of text~~ to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determine ~~determining~~ if the string ~~of text~~ has been edited before transmitting the string to the at least one recognizer plug-in;

in response to the determination if ~~when~~ the string ~~of text~~ has been edited before transmitting the string to the at least one recognizer plug-in, delete ~~deleting~~ the edit edited string ~~of text~~ from the job queue;

in response to the determination if ~~when~~ the string ~~of text~~ has not been edited before transmitting the string to the at least one recognizer plug-in,

~~transmit~~ transmitting the string of text, from the job queue, to the at least one
~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

determine if the string of text associated with the label has been edited
after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining if the string of text associated with the label
has been edited after the string of text was transmitted to the dynamic-link library,
transmit the string of text from the application program module to the recognizer
dynamic-link library, and

an action dynamic link library connected to the application program module.

20. (Cancelled)

21. (Previously Presented) The system of Claim 19 further comprising at least
one action plug-in connected to the action dynamic link library.

22.-23. (Cancelled)

24. (Currently Amended) The method of Claim 1 wherein annotating the
string of text to determine ~~[[a]]~~ the at least one label further comprises comparing the
string of text with at least one ~~a plurality of~~ stored string ~~strings~~ to determine a match.

25. (Currently Amended) The system of Claim 19 wherein the at least one recognizer plug-in compares the string to at least one ~~a plurality of~~ stored string ~~strings~~ to determine whether the string matches any of the stored strings according to the semantic categories embedded in the electronic document.

26. (Previously Presented) The system of Claim 25 wherein the label is associated with the matched stored string.

27. (Currently Amended) For an electronic system for creating and editing an electronic document, a computer-readable storage medium with instructions stored thereon for semantically labeling a string of text in the electronic document created in an application program module, the instructions comprising:

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of text before transmitting the string of text to at least one ~~a plurality of~~ recognizer plug-in ~~plug-ins~~;

determining if the string of text has been edited;

in response to determining if ~~when~~ the string of text has been edited, deleting the edited ~~edit~~ string of text from the job queue;

in response to determining if ~~when~~ the string of text has not been edited, transmitting the string of text, from the job queue, to the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~ during an idle time;

in each of the at least one ~~plurality of~~ recognizer plug-in ~~plug-ins~~, annotating the string of text to determine a label according to semantic categories embedded in the electronic document, wherein annotating the string of text comprises breaking the string of text by each of the at least one recognizer plug-in;

associating each label with the string of text;

transmitting the labels from the at least one recognizer plug-ins to the recognizer dynamic-link library;

transmitting the labels to the application program module, wherein transmitting the labels to the application module comprises determining if the string of text associated with each label has been edited after the string of text was transmitted to the recognizer dynamic-link library;

in response to determining if the string of text associated with each label has been edited after the string of text was transmitted to the recognizer dynamic-link library, transmitting the string of text from the application program module to the recognizer dynamic-link library;

receiving the labels in the action dynamic link library;

transmitting the labels to at least one ~~a plurality of~~ action plug-in ~~plug-ins~~; and

determining, in the at least one action plug-in ~~plug-ins~~, at least one ~~a plurality of~~ action ~~actions~~ based on each of the labels and displaying at least one ~~a plurality of~~ action ~~actions~~ received from the at least one ~~plurality of~~ action plug-in ~~plug-ins~~.

28. (Cancelled)